

Attorney Docket No. P03915US0
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: LYDIA J. DOBLER ET AL.
TITLE: A QUICK ACTING TOXIC AMMONIA TEST FOR AQUEOUS
SAMPLES



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Attached is Form PTO-1449 listing the relevant art known to the applicant herein. Copies of the listed references are enclosed. The Examiner is requested to consider the references and make them of record.

A computer assisted search on determination of ammonia revealed the following patent references:

5,141,853
4,101,382
4,134,798
3,950,226
3,432,395

From the abstracts, none appeared particularly relevant. Applicant therefore did not order the full texts; however, a copy of the print-out is enclosed.

A literature search revealed the journal references listed on the Information Disclosure Statement. Copies are enclosed.

Respectfully submitted,



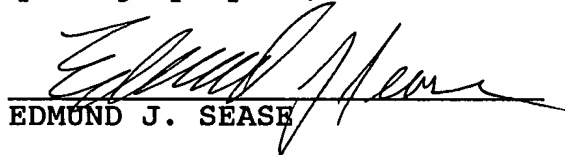
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CERTIFICATE OF MAILING

I hereby certify that the foregoing document was mailed to the Assistant Commissioner for Patents, Washington, D.C. 20231, as first class mail, postage prepaid, this 16th day of March, 1999.


EDMUND J. SEASE

Patent Number 5,141,853
Issue Date 1992 08 25

Image Disc # This patent is on PatentImages disc# 1992\072 and
PatentImages(chemical) disc# 1992\c25

Appl. No. 223056
Filed 1988 07 22

Inventor(s) Kasal, Charles A.; Tinberg, Harold M.; Hissami,
Obaid; Yost, David A.

State/Country TX
Assignee Abbott Laboratories

US References 3,929,581 4,266,022 4,672,045 4,764,466 4,914,040

US Class 435/26 435/25
Int. Class C12Q 1/32

Title Determination of ammonia levels in a sample

Abstract A method and kit for determining the amount of ammonia in
a body fluid. The method and kit involve contacting the
fluid with glutamate dehydrogenase, alpha-ketoglutarate
and nicotinamide hypoxanthine dinucleotide phosphate and
determining the amount of ammonia present in the fluid.

Patent Number 4,101,382
Issue Date 1978 07 18

Appl. No. 638272
Filed 1975 12 05

Inventor(s) Chang, Moon
State/Country CA

US References 3,119,751 3,527,674 3,542,649 3,635,681

US Class 195/103.5UR
Int. Class G01N 31/14

Title Novel reagent and method for the determination of urea in biological fluids

Abstract The ease and speed of known enzymatic assays of micro-amounts of urea is improved by a novel reagent assay comprising: urease, buffers, and an indicator dye, the improvement wherein a mixed buffer system is present which mitigates against the effects of temperature changes during the assay, and a novel method of determining released ammonia with an indicator dye and spectrophotometer.

Patent Number 4,134,798
Issue Date 1979 01 16

Appl. No. 885499
Filed 1978 03 13

Inventor(s) Pinsky, Michael L.
State/Country NJ
Assignee FMC Corporation

US References 3,539,455 3,795,589

US Class 204/1T 204/195M 544/223
Int. Class G01N 27/56 C07D251/32

Title Isocyanurate specific electrode and method of analysis and quaternary ammonium isocyanuric acid salts therefore

Abstract An electrode that is specific for the isocyanurate ion, and capable of rapid determination of the free isocyanurate ion activity directly in solution uses as its sensing element a platinum wire covered with a polyvinyl chloride membrane. The membrane is plasticized with a solution of a quaternary ammonium salt of isocyanuric acid. When this electrode and a commercial reference electrode are immersed in a solution containing the isocyanurate ion, a differential voltage proportional to the isocyanurate ion concentration is generated which is detected by a pH meter.

Patent Number 3,950,226
Issue Date 1976 04 13

Appl. No. 519600
Filed 1974 10 31

Inventor(s) Chang, Moon
State/Country CA

US References 3,119,751 3,427,225 3,527,674

US Class 195/103.5R
Int. Class C12K 1/04

Title Novel reagent and method for the determination of urea in biological fluids

Abstract The ease and speed of known enzymatic assays of micro-amounts of urea is improved by a novel reagent assay comprising: urease, buffers, and an indicator dye, the improvement wherein a mixed buffer system is present which mitigates against the effects of temperature changes during the assay, and a novel method of determining released ammonia with an indicator dye and spectrophotometer.

-Patent Number 3,432,395
Issue Date 1969

US Class 435/12 436/108

Title Salicylate method for the quantitative determination of
ammonia nitrogen

Patent Number 3,718,432
Issue Date 1973

US Class 436/113 436/90 252/301.16

Title Determination ammonia and organic amino compounds